

# **Pacific Northwest National Laboratory Capability Replacement Laboratories (CRL) Project**

Briefing For  
SC F&I Workshop

June, 2005

# Purpose of Project

- ▶ To relocate selected PNNL research capabilities out of the Hanford 300 Area without interrupting ongoing Departmental and National mission-based research programs
  - Hanford's 300 Area is scheduled for demolition and cleanup and must be vacated by the end of FY09 to meet EM's schedule
  - 300 Area facilities occupied by PNNL (700,000 GSF) that will be demolished represent one-third of PNNL's total campus, and support \$200M in research annually and about 750 staff
  - Facility closures will impact many DOE (SC, NNSA, NE, EM), DHS and other Federal research mission activities

# Aerial view of the PNNL Campus and the 300 Area



# 300 Area Capability Transition

*Facilities needed to support mission critical research*

Microbial & Cellular  
Biology

Environmental  
Sciences

Analytical & Interfacial  
Chemical Sciences

Radiological  
Sciences

Information  
Analytics

Sensing & Meas.  
Technologies

## Strategic Intent & Technical Approach

**Meet critical research capabilities impacted by 300 Area transition and growth**

- ▶ Enable research continuity and needed expansion for Science, National, and Homeland Security clients
- ▶ Meet 300 Area closure schedule

## Resource Requirements

- ▶ Capability Replacement Laboratories Project (500,000 gsf, \$200 – 300M)
- ▶ Space for research expansion through FY09 (300,000 gsf – lease only option)
- ▶ In total ~1000 current staff and ~700 new staff (by FY09) impacted
- ▶ Partnering w/ NNSA, DHS, WA state



## Impact on Science and Technology

- ▶ Maintain unique national capabilities in radiological sciences
- ▶ Revitalize our scientific capabilities
- ▶ Meet current and future client needs

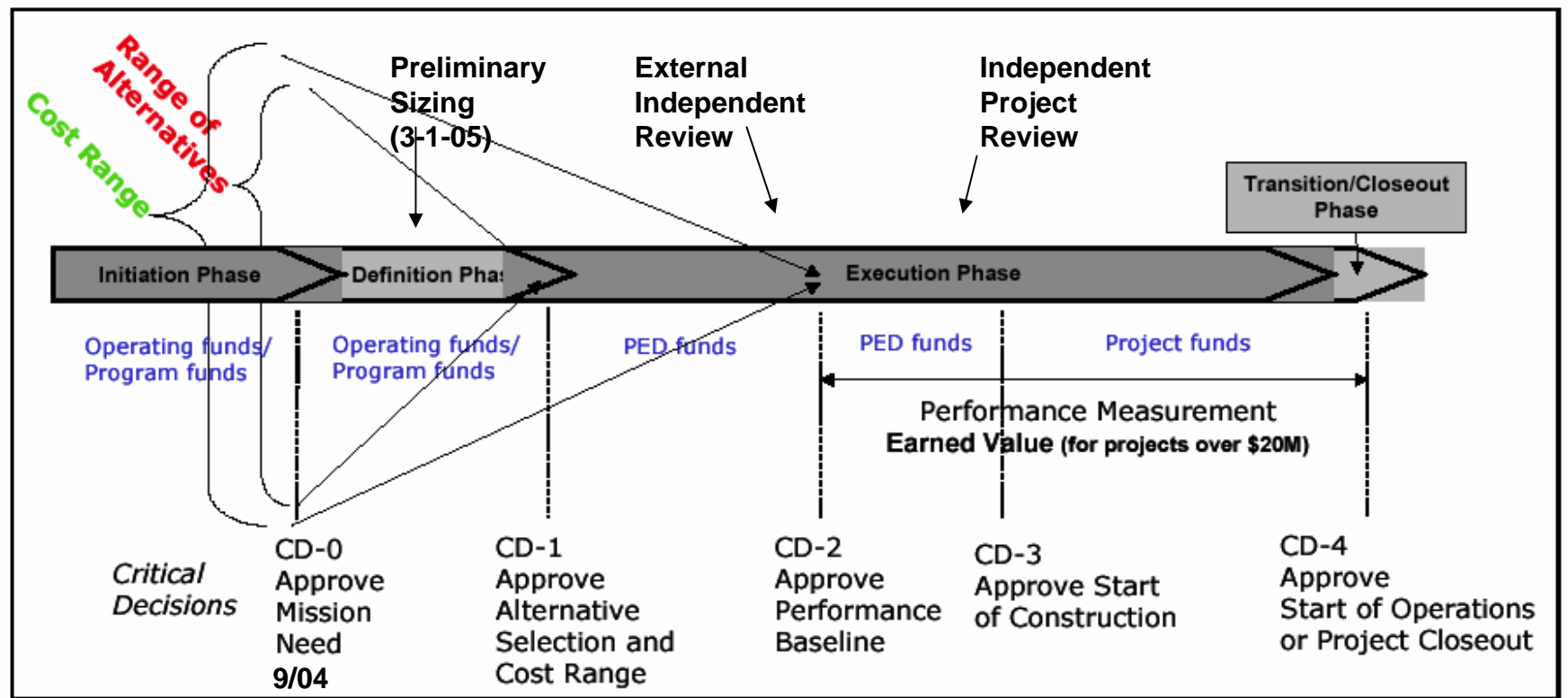
## Benefit

- ▶ Retain world-class capabilities that support Science, National and Homeland Security
- ▶ Save \$2-3B in cleanup costs.



# PNNL Capability Replacement Laboratories Project Overall Schedule

Assumes construction funds come in FY07



PNNL Project  
Timeline:

Oct 2004

July 2005

April 2006

March 2007

Sept 2009

We are here

# Current Project Status

- ▶ Critical Decision 0, Approve Mission Need, was approved by the previous Deputy Secretary, Kyle McSlarrow, in September 2004
- ▶ The Federal Project Director and Contractor Project Manager have been selected
- ▶ A Headquarters Project Objectives Review Team has been established and includes NNSA, SC, EM, EH, DHS
- ▶ An Integrated Project Team with PNSO and PNNL membership has been chartered
- ▶ Weekly teleconferences are held to monitor progress and address emerging issues. SC-2 is briefed monthly
- ▶ A Plan of Action and Milestones identifying key high level project deliverables has been developed and the project is currently on track with this schedule
- ▶ Funding has been obtained for Conceptual and Preliminary Design
- ▶ The AE firm CUH2A has been contracted to prepare the Conceptual Design Report

# Sensitivities

## ► Multi-Agency Sponsorship

- DOE (NNSA, SC and possibly EM) and DHS are partners in the funding of this project. Although this has multiple benefits, it adds complexity in obtaining Critical Decisions, coordination of funding requests and overall programmatic management of the project
- The funding approach planned requires determining fair funding shares via a cost allocation methodology agreed to by the sponsors

# Sensitivities (cont)

## ► Congressional Interest

- In FY04, Congressional reprogramming provided funds (total \$1,586K) to begin Conceptual Design for new replacement facilities at Richland
- Congress provided a total of \$10M in FY05 to continue the project
- The President's FY06 budget includes a total of \$8M for the project
- Congressional attention is expected to continue



# Major Issues/Risks to be Addressed

## ► Program Impact

- Need to enable smooth transition of key programs conducted for SC, NNSA, DHS and Other Departmental and Federal Agencies to prevent disruption of programs, limit transition/move costs, prevent loss of expertise and staff

## ► Schedule

- The project must be fast-tracked to meet the EM cleanup schedule in the recently awarded River Corridor Cleanup Contract (i.e., end of FY09) with construction starting in FY07

# Major Issues/Risks to be Addressed (cont)

## ► Funding

- The cost range for this project was identified at CD-0 as \$200-\$300M. Significant funding for construction will be required in FY07 and 08 to meet the schedule
- Battelle has proposed contributing funding through capital and/or alternative financing for some of the new facilities (included in the \$200-\$300M cost range)

# Summary

- ▶ By July 2005
  - Complete Conceptual Design
  - CD-1 Approval
  
- ▶ August 2005 and Beyond
  - Start Preliminary Design
  
- ▶ 2009
  - Capability Replacement Laboratories Ready for Operations